

**Reading:** Read Sections 6.7, 6.9, and 6.10 in Venema.

**Reading Report:** Due Sunday, 1/28/07, by midnight.

**Written Problems:**

- Venema, pp. 132–134, Exercises 6.29, 6.45, 6.46, 6.49. Bring one copy of these problems.
- **First Portfolio Assignment:** Choose *any five* proofs from the ones that were required for Assignments 1, 2, and 3, and rewrite them with due attention to writing style as well as mathematical correctness. Your proofs should be chosen so that they are related to each other, develop in some logical order, and “tell a story” with an interesting conclusion. Your writeup should be organized into a single essay that includes an introduction, the statements and proofs of all five theorems with appropriate transitional discussions, and a conclusion. If you need to include proofs of one or more additional theorems (either from the book or from other problems) for continuity, you may do so; but if you include proofs from the book, be sure you paraphrase them in your own words – do not copy from the book.

Bring three copies to class next Wednesday, each copy stapled together and separate from the new problems above.